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(71) Applicant: DAI ICHI KOGYO SEIYAKU CO LTD

(72) Inventor: MOTOGAMI KENJI  
MORI SHIGEO

## (54) IONICALLY CONDUCTIVE POLYELECTROLYTE

## (57) Abstract:

**PURPOSE:** To improve the ionic conductivity and handling properties by incorporating a sol. electrolytic salt into an org. polymer obtd. by crosslinking a specific org. compd.

**CONSTITUTION:** An active hydrogen compd., a glycidyl ether, and a 2-3C or higher alkylene oxide are reacted to give a polyether, into which, if necessary, a polymerizable group is introduced at the terminal of the main chain, thus giving an org. compd. having an average mol.wt. of 1000-20000 and a backbone structure of formula I {wherein Z is a residue of the active hydrogen compd.; R<sup>1</sup> is formula II {wherein (n) is 0-25; and R is 1-20C alkyl, alkenyl, or (alkyl) aryl}; R<sup>2</sup> is H or methyl; Y is an active hydrogen group or a polymerizable group; (k) is 1-12; (l) is 1-220; (m) is 1-240; and l/(l+m)≥0.3}. The org. compd. is then crosslinked to give an org. polymer, which is doped with a sol. electrolytic salt in an amt. of 0.0001-5.0mol based on one mol of an ether linkage oxygen in the polymer.

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